

# PHOTOGRAPHY.

ABERDARE:

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1867.

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*To secure adhesion of Collodion to the Plate.*

Albumen of one egg to ten ounces of water. Pour on a flat dish ; place a side of a plate on the surface of fluid by the aid of a pneumatic plate holder ; then rear up and dry. Collodionise sensitise ; wash ; pour over the plate a two grain solution of Bromide of Ammonium to one ounce of water :—expose as soon as possible after it is dry and develope. The plates will not keep over the day.

### *Hot Water Process.*

Sensitise ; wash.

Gallic Acid	.....	2 grains.
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Water	.....	1 ounce.
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Pour over the plate.

Albumen	.....	1 ounce.
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Water	.....	4 ounces.
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Pour over the plate and then plunge in a dish of hot water.

*Developement.*

1

Protosulphate of Iron	... 40 grains.
Sugar of Milk	..... 12 grains.
Acetic Acid	..... 25 minims.
Water	..... 1 ounce.

Or,

2

Gelatine	..... 1 drachm.
Water	..... 1 ounce.

Boil fifteen minutes with one drachm of Caustic Potash, add two ounces of water, neutralise with sulphuric acid, and finally add *four* drachms of glacial acetic acid. Use this as an intensifier for negatives with the double sulphate of iron and ammonia. It does not become turbid on the addition of silver.

Or

3

1st.—*Stock of Nitro Gelatine.*

Gelatine	..... 3 drachms.
Water	..... 1 ounce.
Nitric Acid	..... 1 ounce.

Preserve for use.

2nd.

Double Sulphate of Iron	
and Ammonia	..... 4 drachms.
Nitro Gelatine	..... 1 drachm.
Alcohol	... .. 1 drachm.
Water	..... 6 ounces.

Dissolve and filter. This developes and sufficiently intensifies a negative

## 4

Glacial Acetic Acid	..... 6 drachms.
Nelson's Gelatine	..... 1 drachm.
Water	..... 6 ounces.

Add one ounce of this solution to one pint of  
a Saturated Solution of

Protosulphate of Iron.....	4 ounces.
Acetic Acid	..... $1\frac{1}{2}$ drachm.
Water	..... 20 ounces.

If weakness of image arises from over exposure,  
fix before further intensifying.



*Tannin Developer.*

Carbonate of Ammonia... 20 grains.

Distilled water ..... 10 ounces.

Wash off before using another developer.

Pyrogallic Acid ..... 2 grains.

Citric Acid ..... 1 grain.

Distilled water ..... 1 ounce.

Use this before any silver solution is used : or

Pyrogallic Acid ..... 1 grain.

Glacial Acetic Acid ..... 30 minims.

Distilled water ..... 1 ounce.

The developement may be continued after fixing.

*Printing.*

Nitrate of Silver ..... 60 grains.

Water ..... 1 ounce.

Nitrate of Potash ..... 10 grains.

Nitrate of Magnesia..... 10 grains.

Acetate of Lead ..... 2 grains.

Or, add 2 grains of Nitrate of Uranium.

*Toning Baths.*

## A.

Chloride of Gold	.....	1 grain.
Acetate of Soda	.....	20 grains.
Carbonate of Soda	.....	20 grains.
Water	.....	10 ounces.

Mix the Carbonate of Soda and Gold first and then add the Acetate of Soda ; or, 30 grains of Acetate of Soda, without the Carbonate, may be used : but mix 24 hours before using.

## B.

- (1.) Chloride of Lime .....  $\frac{1}{2}$  ounce.  
 Distilled Water ..... 16 ounces.
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- (2.) Chloride of Gold ..... 1 grain.  
 Carbonate of Lime [Chalk] 3 grains.  
 Water ..... 1 ounce.

In 8 ounces of hot distilled water put No. 2, and after five minutes put half-an-ounce of No. 1.

It is the only bath which gives a black tone.

## C.

Water	..... 18 ounces.
Gold	..... $3\frac{1}{2}$ grains.
Benzoate of Ammonia ...	6 grains.

This gives a dark violet colour.

## D.

Chloride of Gold	..... 5 grains.
Tungstate of Soda	..... 20 grains.
Boiling Water	..... 5 ounces.

Add

Sulphocyanide of Ammonium	5 grains.
Water	..... 5 ounces.

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Fix with Hypo of Soda.. 1 ounce.

Water ..... 6 ounces.

*To Clean Fingers.*

Glauber Salts	..... $\frac{1}{4}$ lb.
Chloride of Lime	... .. $\frac{1}{4}$ lb.
Water	..... 4 ounces.

And then wash off the smell by using a cake of pipe clay.

